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ATTORNEY DOCKET NO. FIRST NAMED INVENTOR CONFIRMATION NO. FILING DATE APPLICATION NO. 09/637,185 08/11/2000 **Kurt Holmquist** 61607-1220 7394 05/20/2004 **EXAMINER** 24504 7590 THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP VANDERPUYE, KENNETH N 100 GALLERIA PARKWAY, NW **ART UNIT** PAPER NUMBER STE 1750 ATLANTA, GA 30339-5948 2661

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	ation No.	Applicant(s)	
		09/637	,185	HOLMQUIST ET AL	HOLMQUIST ET AL.
	Office Action Summary	Examir	ner	Art Unit	
		Kennet	n N Vanderpuye	2661	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)	Responsive to communication(s) file	d on			
·	This action is FINAL. 2b)⊠ This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) Claim(s) 1-53 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 13,26,39,52 and 53 is/are allowed. 6) Claim(s) 1,14,27 and 40 is/are rejected. 7) Claim(s) 2-12,15-25,28-38 and 41-51 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority u	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachmen			_		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 14, 27, 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gitlin et al.(5,278,689)

With regards to claims 1, 14, 27, 40, are rejected because Gitlin teaches a system comprising: a communication message including a preamble, the preamble including a plurality of bits representing communication link control information; (Fig. 1, header), an encoder configured to encode the preamble (col. 3 lines 10-14, encoder) into plurality of symbol indices, the symbol indices encoded at a lower bit per symbol rate relative to the maximum rate capable of being supported over a communication channel. (Fig. 1, header encoded at a lower rate than the data which is encoded at a rate compatible with the speed of the transmission links, col. 3 lines 10-20). What Gitlin fails to teach is the



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encoding of the preamble into symbol indices. The admitted prior art teaches encoding using symbol indices(specification p. 4 lines 6-8). It would have been obvious to use symbol indices to encode the preamble and data making the interleaving of symbols more robust.

Allowable Subject Matter

Claims 13, 26, 38, 52-53 allowed.

Claims 2-12, 15-25, 28-38, 41-51 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth N Vanderpuye whose telephone number is 703-308-7828. The examiner can normally be reached on M-F(7:30-5:00) Second Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Olms can be reached on 703-305-4703. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KNV 5-17-04

KENNETH VANDERPUYE PRIMARY EXAMINER